Cambridge Observations. Vol. XXIV. Part I.

STORAGE

MEASURES OF DOUBLE STARS

MADE WITH THE

NORTHUMBERLAND EQUATORIAL OF THE CAMBRIDGE OBSERVATORY

Under the direction of Professor Challis
in the years 1839–1844

Now published for the first time

Cambridge
at the University Press
1908

With the compliments of
the Cambridge Observatory Syndicate.

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MADE WITH THE
NORTHUMBERLAND EQUATORIAL OF THE CAMBRIDGE OBSERVATORY
1839—1844

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PREFACE

THE double star observations now published formed the first large piece of work undertaken with the Northumberland Equatorial of 12 inches aperture and 19 feet focal length on its completion in 1839. For a reason which is not known they were never published by Professor Challis under whose direction they were made, and they were forgotten until a rearrangement of the old reduction books in 1904 led to the discovery of a volume containing a collection of all the observations up to 1843 Oct. 18, the greater part of them unreduced, together with some loose sheets giving reductions of many observations, mostly of later date than those in the bound volume.

At that time Mr Thomas Lewis, of the Royal Observatory, Greenwich, was making a collection and discussion of observations of Struve's double stars, and the manuscript was sent to him with permission to use it in his work. He has incorporated many of the results in the memoir recently published by the Royal Astronomical Society (*Memoirs*, Vol. LVI., 1906).

In returning the manuscript Mr Lewis very kindly sent with it a collection of the results of his reductions, with the remark that the measures bore evidence of having been made with great care, and that they have considerable value because in many cases they are the only measures between Struve's and Mädler's. The Syndics of the University Press undertook to print the individual observations, and printing began from Mr Lewis's list. The whole was revised by Mr Hinks and Mr Hartley as it passed through the press. It was then found that the measures reduced on the loose sheets already referred to were marked as extracted from the observation books for Mr Gledhill, and an examination of the original records brought to light a large number of additional observations, some few of which were inserted in the body of the work. The remainder are given in three appendices prepared by Mr Hartley.

Mr Lewis gives the following particulars of the measures collected by him:—
"The working catalogue was made up of Herschel and Struve pairs, but as the Herschel pairs appear also in Struve's *Mensurae Micrometricae*, the Herschel numbers used by the observers have been dropped, and the Struve numbers only employed. The present catalogue is therefore arranged in the order of the Struve numbers, which is practically that of Right Ascension.

"There are over 400 pairs, each pair being observed, on the average, on 2½ nights. In the earlier years the number of individual settings for each star on one night varied from 4 to 10. In 1841 the plan was adopted of making uniformly four settings each in distance and position angle. The value of one revolution of the micrometer screw is 16″.970. It will be noticed that in estimating colour Mr Glaisher has a general tendency to make stars blue."

The body of the work is arranged as follows:

Column 1 gives the Struve number.
Columns 2 and 3 the approximate Right Ascension and North Polar Distance for 1900·0.
Column 4 the estimated magnitudes.
,, 5 the estimated colours.
,, 6 the epoch of observation.
,, 7 the position angle.
,, 8 the distance.
,, 9 the observer: C is Professor Challis, G is Mr John Glaisher, one or two observations were made by Mr Snow.

The arrangement of the appendices is substantially the same, but Appendix I does not give the coordinates, the magnitudes, or the colours of the stars, as they have already been given in the body of the work. In Appendix III, containing stars not found in Struve, the first column gives (where possible) the designation used by other observers.

ROBERT S. BALL.

Cambridge Observatory.
1908. *Feb.* 20.

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MEASURES OF DOUBLE STARS

MADE WITH THE

NORTHUMBERLAND EQUATORIAL

1839—1844

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
1	$0^h\ 4^m$	53° 20′	8.0 10.0	Ash Ash	41.94	285°.9	9′.45	G
			8.0 9.5	W B	42.84	285.8	10.14	G
2	0 4	10 50	— —	— —	39.80	345.6	0.83	C
4	0 5	82 6	8.0 8.0	B B	41.94	271.4	5.84	G
			8.5 8.5	B B	42.81	272.9	5.25	G
			— —	— —	44.83	272.7	4.72	G
5	0 5	79 24	5.5 12.0	O B	41.93	162.4	7.10	G
12	0 10	81 44	5.5 7.5	Y B	41.94	149.9	11.76	G
			6.0 7.5	B B	41.94	150.0	11.74	G
			6.0 8.0	Y B	42.81	148.8	11.30	G
			— —	— —	44.83	150.2	11.59	G
19	0 12	53 55	7.0 9.5	Y Ash	41.94	129.3	2.53	G
			8.0 10.5	B B	42.84	133.3	1.58	G
22	0 12	81 41	6.5 7.5	OY B	41.95	236.5	4.31	G
24	0 13	64 25	7.5 8.0	R B	41.95	247.5	4.74	G
			7.5 8.0	B B	42.92	246.4	4.88	G
25	0 14	74 34	8.5 8.5	B B	41.95	186.9	1.98	G
			8.5 9.0	B B	42.93	189.9	1.14	G
40	0 30	53 44	7.0 8.5	Y B	41.96	311.8	12.07	G
			7.5 9.0	Y B	42.84	312.9	11.74	G
46	0 35	69 7	6.0 8.5	O B	41.95	188.8	6.57	G
			6.5 9.0	Y B	42.92	194.7	6.15	G
			— —	— —	44.92	194.6	6.25	G
51	0 38	73 11	8.0 10.0	W B	41.96	133.9	3.68	G
			8.0 10.0	B B	42.81	129.8	3.26	G
60	0 43	32 43	— —	— —	39.90	94.3	8.98	C
61	0 45	62 50	6.0 6.0	W Y	41.96	117.5	4.54	G
			6.5 6.5	W W	43.12	118.2	4.33	G
63	0 45	78 43	8.0 11.0	B B	41.96	197.1	12.70	G
73	0 50	66 55	8.0 8.5	— —	39.78	320.9	1.09	C
93	1 23	1 13	— —	— —	39.74	208.9	18.79	C
99	1 8	65 57	5.0 10.0	O B	41.95	223.0	7.72	G
			4.5 10.0	Y B	42.08	226.8	8.13	G
113	1 15	91 2	6.0 7.5	B B	41.95	336.9	1.25	G
115	1 17	32 23	— —	— —	39.85	153.4	0.75	C

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
138	$1^h 31^m$	82° 52′	7.5	8.0	B	B	41.96	21°.0	1″.26	G
162 AB	1 43	42 36	6.5	7.0	O	B	41.93	223.4	1.86	G
AC			6.5	9.0	O	B	41.93	179.3	20.03	G
174	1 45	68 13	6.0	6.5	W	B	41.91	169.6	3.21	G
			6.0	7.5	Y	B	42.80	169.0	2.61	G
178	1 47	79 41	7.5	8.0	B	B	41.95	191.7	3.63	G
			7.5	7.5	B	B	42.80	192.7	3.41	G
179	1 47	53 10	6.5	7.0	B	B	41.91	159.9	3.54	G
			7.0	8.0	W	B	43.12	161.6	3.30	G
180	1 48	71 12	4.0	4.5	Y	Y	41.93	359.6	8.88	G
186	1 51	88 39	7.5	7.5	Y	Y	41.93	69.5	1.08	G
194	1 54	65 39	8.0	8.5	B	B	42.08	265.3	1.34	G
202	1 57	87 44	6.0	7.0	Y	G	41.95	330.6	3.37	G
			3.5	5.0	W	Y	42.80	331.8	3.15	G
205	1 58	48 9	6.0	8.0	Y	B	42.84	112.3	<0.15	C
BC			—	—	—	—	42.84	100.2	—	G
			6.5	8.0	B	B	43.12	115.6	0.31	G
AB			2.5	6.0	Y	B	41.95	63.8	10.45	G
			2.5	5.5	Y	B	42.92	63.3	10.35	G
			2.5	6.5	Y	B	43.12	62.9	10.49	G
208	1 58	64 33	6.5	9.0	O	B	42.08	27.2	1.95	G
			6.5	9.0	W	B	42.12	26.3	1.99	G
			7.5	9.0	Y	B	44.90	32.1	1.67	G
221	2 4	70 7	7.5	9.0	B	B	41.95	144.0	8.08	G
			7.5	9.0	B	B	43.14	147.6	9.16	G
227	2 7	60 10	—	—	—	—	39.78	77.5	3.89	C
			5.5	7.0	Y	W	41.90	78.7	3.50	G
274	2 26	89 21	7.5	7.5	B	B	42.07	218.7	13.36	G
			7.0	7.5	B	B	42.08	219.0	13.58	G
285	2 33	57 1	7.0	7.5	Y	B	41.96	173.8	2.20	G
			7.5	8.0	B	B	42.12	176.5	1.98	G
291	2 36	71 38	7.0	7.5	B	B	41.96	119.9	3.37	G
			6.7	7.0	B	B	42.12	118.0	3.20	G
299	2 38	87 11	4.0	7.0	Y	B	42.07	280.1	2.89	G
			4.0	7.0	Y	B	42.08	282.4	2.95	G
307	2 43	34 31	—	—	—	—	39.95	300.4	28.65	C

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
311 AB	2^h 44^m	72° 56′	5.5	9.0	Y	B	41.96	121°.7	3″.11	G
AC			5.5	11.0	Y	B	41.96	113.1	25.50	G
314	2 46	37 25	—	—	—	—	39.96	297.6	—	C
333	2 54	69 4	—	—	—	—	39.95	190.5	0.57	C
			7.0	7.5	W	W	43.18	196.2	0.63	G
346	3 0	65 8	—	—	—	—	39.80	81.6	0.66	C
AB			6.0	7.0	B	B	43.11	88.6	0.46	G
$\frac{AB}{2}$.C			6.0	12.0	B	B	43.11	354.8	5.10	G
380* $\frac{AB}{2}$.C	3 16	81 36	6.5	11.0	B	B	44.77	31.1	1.14	G
AB			7.0	7.8	B	B	44.77	77.5	1.10	G
401	3 25	62 46	7.0	7.5	B	B	42.07	270.0	11.50	G
			6.5	7.0	B	B	42.13	269.4	11.34	G
412	3 28	65 52	—	—	—	—	39.80	261.1	0.34	C
AB			7.0	7.5	B	B	43.12	265.2	0.41	G
$\frac{AB}{2}$.C			—	—	—	—	39.80	62.7	22.20	C
			7.0	10.5	B	B	43.12	62.4	20.47	G
453	3 43	66 16	—	—	—	—	43.12	Single	—	G
520	4 12	67 27	—	—	—	—	39.95	104.4	—	C
			8.5	8.5	B	B	43.12	101.7	0.54	G
535	4 18	78 51	7.5	9.0	Y	B	42.12	349.6	1.97	G
559	4 28	72 12	7.0	7.0	B	B	42.14	277.8	3.15	G
			7.0	7.5	B	B	42.18	276.5	3.48	G
566	4 32	36 43	6.5	8.5	Y	B	42.13	301.4	1.61	G
			6.0	8.5	B	B	42.18	301.6	1.78	G
577	4 36	52 41	8.0	8.0	B	B	42.12	270.2	1.53	G
			7.5	8.0	B	B	42.19	269.1	1.48	G
616	4 52	52 16	4.5	7.5	O	B	42.08	351.0	6.53	G
			4.5	7.5	Y	B	42.19	349.8	6.52	G
644	5 4	52 49	7.5	7.5	Y	Y	42.12	222.4	1.61	G
652	5 7	89 5	6.5	8.0	W	B	42.15	185.3	1.74	G
653	5 9	57 27	—	—	—	—	39.77	226.4	14.70	C
AB			4.5	7.5	Y	B	43.12	227.6	15.03	G
654	5 8	87 15	4.5	9.0	O	B	42.15	63.6	6.52	G
			5.0	9.5	O	B	43.04	64.6	6.88	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
668	5^h 10^m	98° 19′	1	10.5	Y	GW	41.20	201°.5	9″.82	G
			—	—	—	—	41.20	201.4	9.91	C
			1	7.0	Y	B	41.86	200.3	9.59	G
			1	8.0	Y	B	43.04	199.1	10.17	G
694	5 18	65 8	8.0	8.0	B	B	42.12	2.2	1.53	G
716	5 23	64 56	6.5	7.5	Y	B	42.12	195.6	5.02	G
			6.5	7.5	Y	B	42.19	198.4	4.91	G
728	5 25	84 8	6.0	8.0	W	B	42.12	206.9	1.01	G
			5.5	8.0	Y	B	42.16	206.6	1.03	G
729	5 26	86 47	7.5	9.0	W	B	42.12	26.9	2.04	G
			7.0	8.5	B	B	42.16	22.5	1.90	G
734 AB	5 28	91 47	7.5	9.0	B	B	42.15	0.6	1.90	G
			7.5	8.5	B	B	43.16	356.3	1.64	G
AC			7.5	8.5	B	B	42.15	242.8	29.74	G
			7.5	9.0	B	B	43.16	244.1	30.14	G
738	5 30	80 8	5.0	7.0	Y	B	42.15	44.6	4.41	G
748 AE	5 30	95 27	7.5	14.0	Y	B	43.18	352.8	3.53	G
752	5 31	95 59	5.5	9.5	YW	B	41.21	141.0	11.40	C
			5.5	9.5	YW	B	41.21	142.0	11.19	G
			4.0	8.0	Y	B	43.18	142.4	11.29	G
757	5 33	90 15	8.0	8.5	B	B	42.14	239.6	1.73	G
			8.0	9.0	B	B	42.16	234.9	1.82	G
758	5 33	90 15	8.0	8.5	B	B	42.14	300.0	11.24	G
			8.5	9.0	B	B	42.16	296.8	11.20	G
{757* 758}			8.3	8.0	B	B	42.14	78.7	49.70	G
			8.5	8.5	B	B	42.16	78.5	50.03	G
774	5 36	92 0	—	—	—	—	39.99	154.9	2.91	C
			3.5	6.0	O	Y	42.14	154.0	2.60	G
795	5 43	83 35	7.0	7.5	BW	BW	42.14	198.2	1.99	G
			7.5	7.5	Y	Y	42.16	201.1	1.79	G
840 BC	6 1	79 14	6.5	9.0	Y	B	42.16	184.0	0.67	G
848 AB	6 3	76 1	7.0	8.0	B	B	42.15	106.2	2.68	G
			7.5	8.5	Y	B	42.16	106.0	2.60	G
AC			7.0	8.0	B	B	42.15	120.8	28.17	G
			7.5	9.0	Y	B	42.16	120.8	28.55	G
AD			7.0	8.5	B	B	42.15	182.7	43.73	G
			7.5	9.0	Y	B	42.16	182.9	43.36	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
941	6h 32m	48° 20′	—	—	—	—	40.12	78°.8	—	C
			7·5	8·5	Y	B	43·18	78·4	2″.32	G
948 AB	6 37	30 28	6.0	7.0	Y	B	42.19	147·4	1·56	G
			7.0	7·5	B	B.	42.27	149·4	1·44	G
			6.5	7.0	Y	B	42.29	149·4	1·52	G
AC			6.0	8.0	Y	B	42.19	302·4	8.65	G
			7.0	8.0	B	B	42.27	305·6	8.82	G
			6.5	8.0	Y	B	42.29	305·6	8.74	G
953	6 36	80 55	7·5	8.0	Y	B	42.15	329·2	7.05	G
			7·5	8.0	Y	B	43·16	329·2	6.81	G
1009	6 58	37 5	—	—	—	—	40.12	159·4	3·25	*
			—	—	—	—	40.12	159·2	2.91	C
1033	7 7	37 17	7·5	8·5	B	B	42.18	275·1	1·47	G
			8.0	9.0	B	B	42.28	278.2	1·56	G
1037	7 7	62 36	7·0	7·5	W	W	42.14	328.2	0.99	G
			7·0	7·5	Y	Y	42.17	327·7	1.26	G
1083	7 20	69 18	8.0	9.0	C	C	41.20	42.9	6.25	C
			8.0	9.0	C	C	41.21	40.1	6.57	C
			—	—	—	—	41.20	43·6	6·34	G
			—	—	—	—	41.21	41.2	6·34	G
1110 AB	7 28	57 53	—	—	W	W	41.13	252·3	5·31	C
			—	—	—	—	41.13	253.0	4·73	G
			—	—	Y	Y	44.26	249.0	4·92	G
AC			—	11·5	W	T	41.13	163.0	72.15	C
1116	7 29	77 29	7·5	8·5	B	B	42.14	111.2	2.11	G
			7·5	8.0	B	B	42.19	111.8	1.93	G
1126	7 35	84 32	7·0	7·5	BY	BY	42.14	137·3	1·50	G
			7·0	7·5	B	B	42.19	137·4	1·58	G
1146	7 43	101 57	—	—	—	—	41.21	14·6	3·21	C
			—	—	—	—	41.21	15·4	3·35	G
			6.0	8.0	Y	B	43·18	18.2	3·49	G
1177	7 59	62 9	8.0	9.0	W	W	41.23	353·1	3·62	G
			8.0	9.0	W	W	41.23	355.0	3·59	C
			6.0	6·5	B	B	42.19	354·3	3·55	G
			6.0	7.0	B	B	42.20	353·2	3·56	G
			6.5	7·5	W	B	43·16	353·6	3·17	G
1186	8 3	62 14	7.0	14.0	O	B	41.22	219·9	3.00	C
			7·5	11.0	W	B	43·16	215·4	3·46	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
1196	8^h 6^m	72° 3′	—	—	—	—	40.12	2°.3	0″.88	C
AB			—	—	—	—	40.12	6.6	1.18	C
			6.0	7.5	Y	O	41.22	2.4	1.15	G
			7.5	8.0	Y	Y	41.23	1.7	1.10	C
			6.5	7.0	Y	Y	42.15	1.1	1.10	G
			—	—	—	—	44.09	354.1	0.97	C
AC			—	—	—	—	40.12	143.7	4.85	C
			7.0	7.5	Y	Y	41.23	147.6	4.89	C
			—	—	—	—	44.09	145.3	4.82	C
CB			—	—	—	—	40.12	335.8	5.54	C
			7.0	7.5	Y	Y	41.23	334.9	5.72	C
			6.5	7.5	Y	B	42.15	326.8	5.55	G
1200	8 9	39 55	8.5	8.5	W	W	41.21	357.9	8.48	G
			8.5	8.5	W	W	41.21	358.6	8.29	C
1223	8 21	62 44	7.5	7.5	O	O	41.20	212.3	4.79	G
			7.5	7.5	O	O	41.20	212.3	4.83	C
			7.0	7.4	BW	BW	41.21	210.6	4.56	C
			7.0	7.4	BW	BW	41.21	211.4	4.33	G
1224	8 21	65 8	—	—	B	B	40.18	36.7	5.94	C
			7.0	8.0	Y	B	41.18	39.7	6.19	C
1244	8 31	47 51	8.0	10.5	B	B	42.25	358.9	3.43	G
			8.0	11.0	B	B	42.27	0.8	3.34	G
1245	8 31	83 2	6.0	7.5	W	W	41.21	25.3	10.52	G
			6.0	7.0	W	BW	41.22	24.9	10.30	C
			6.0	7.0	Y	O	41.22	25.8	10.43	G
			6.0	7.0	Y	O	41.23	26.9	10.23	G
1258	8 36	40 47	7.5	7.5	B	B	42.21	330.4	9.58	G
1263	8 39	47 57	8.0	8.5	W	B	41.22	12.4	13.71	C
			7.5	7.5	B	B	42.25	13.2	14.40	G
			7.0	7.5	W	B	42.30	13.6	14.72	G
1268	8 41	60 52	5.0	7.5	Y	B	42.26	306.9	30.50	G
			5.0	7.5	O	B	42.27	306.6	30.43	G
1273	8 41	83 13	2.5	11.0	OT	B	41.20	198.5	3.42	C
			2.5	11.0	OT	B	41.20	197.5	3.46	G
			3.5	8.5	Y	B	43.17	202.7	3.82	G
			4.0	8.0	Y	B	44.22	202.6	3.23	G
1288	8 47	61 10	9.0	9.3	B	B	41.25	258.5	6.93	C
			9.0	9.5	B	B	41.25	258.5	7.63	G
			9.0	9.5	B	B	43.16	259.2	7.33	G
1289	8 48	46 2	—	—	—	—	42 25	4.1	4.04	G
			—	—	—	—	42.25	2.6	—	G
			7.5	8.5	B	B	42.26	2.6	3.82	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
1291	$8^h 48^m$	59° 3′	6.5 7.0	Y Y	42.26	335°.9	1″.38	G
			6.5 7.0	Y Y	42.30	336.5	1.37	G
1298	8 55	57 21	6.5 9.0	YW B	41.25	136.3	4.33	G
			6.5 9.0	YW B	41.25	139.1	4.25	C
			6.5 8.5	W B	43.18	137.9	4.26	G
1306	9 2	22 28	3.5 9.0	Y B	41.25	266.6	4.07	C
			— —	— —	41.25	265.5	4.36	G
1311	9 2	66 37	7.5 8.0	B B	42.28	202.2	7.60	G
			6.5 7.0	W W	42.29	201.3	7.62	G
1312	9 3	37 13	7.5 8.5	Y B	42.26	149.7	4.72	G
			7.5 8.0	W B	43.21	147.0	4.64	G
1318	9 7	42 37	7.5 9.0	B B	42.26	247.1	3.52	G
			7.5 10.5	Y B	42.30	246.7	3.44	G
1322	9 7	73 4	8.0 8.5	B B	42.25	53.7	1.78	G
			8.0 8.5	B B	42.29	56.3	1.83	G
1333	9 12	54 13	7.5 7.5	B B	42.24	40.8	1.47	G
			7.0 7.5	W W	42.30	40.7	1.70	G
1338	9 15	51 23	7.5 8.0	B B	42.24	127.3	1.45	G
			7.0 7.5	BW BW	42.30	127.3	1.70	G
1340	9 16	40 3	6.5 9.0	W B	42.26	317.6	6.46	G
			7.5 9.0	W B	43.21	318.2	5.95	G
1346	9 19	35 33	7.0 8.0	— —	41.23	309.3	5.88	C
			— —	— —	41.23	308.6	5.75	G
			7.0 8.0	W B	43.21	311.3	5.81	G
1348	9 19	83 13	8.0 8.0	BW BW	42.26	327.9	1.25	G
			8.0 8.0	W W	42.27	328.4	1.41	G
1355	9 22	83 20	7.0 7.5	B B	42.25	326.8	2.89	G
			7.5 8.0	B B	42.26	326.3	3.02	G
1356	9 23	80 30	— —	— —	41.22	248.2	0.33	C
1365	9 26	88 5	7.0 8.0	Y B	42.25	161.0	2.99	G
			7.5 8.5	Y B	42.26	160.9	3.37	G
1377	9 38	86 55	7.5 13.0	Y B	42.26	137.8	3.29	G
			7.5 13.0	Y B	42.27	139.5	3.31	G
1379	9 40	80 40	7.0 11.0	Y B	41.25	173.5	9.38	G
			7.5 12.0	W B	43.17	171.8	9.74	G
1396	9 52	78 52	8.0 11.0	B B	42.29	129.6	3.30	G
			8.0 10.5	B B	43.17	133.4	3.15	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800 0 +	Position angle	Distance	Observer
1417	10ʰ 10ᵐ	70° 22′	8.0	8 0	B	B	42.29	260°.2	2.′51	G
			8.0	8.5	B	B	42.31	260.7	2.48	G
1424	10 14	69 39	3.0	4.0	OY	OY	41.21	103.3	2.78	C
			3.0	4 0	OY	OY	41.21	102.5	2.73	G
			2.5	5.0	O	O	42.29	105.3	2.84	G
			3.0	4.5	Y	Y	44.25	106.6	2.89	G
1426 AB*	10 15	83 4	8.0	8.5	B	B	43.18	262.3	—	G
$\frac{AB}{2}$.C			8.0	9.5	B	B	43.18	10.3	7.48	G
1428	10 20	36 52	7.5	8 0	B	B	42.30	84.6	3.42	G
1431	10 20	80 43	7.5	9.5	W	B	42.29	67.3	3.02	G
			8.0	10.5	B	B	42.31	64.2	3.22	G
1439	10 25	68 41	7.5	8.0	B	B	42.29	128.6	2.38	G
			8.5	9 0	B	B	42.32	128.7	1.98	G
			8.5	9.0	B	B	43.33	128.4	1.40	G
1447	10 28	66 8	7.0	8.5	W	B	41.25	125.8	4.33	G
			7.0	9.0	YW	T	41.29	126.5	4.34	G
1450	10 30	80 50	6.5	9.0	Y	T	42.30	150.3	2.48	G
			6.5	11.0	Y	B	42.31	155.9	2.70	G
			6.5	9.5	Y	T	42.32	159.6	2.66	G
1457	10 34	83 45	7.5	8.0	B	B	42.31	297.0	0.70	G
			7.5	9.0	W	W	42.37	301.1	0.83	G
1460	10 35	47 19	7.5	7.5	B	B	42.30	166.6	3.31	G
			8.5	8.5	B	B	42.44	166.6	2.83	G
1464	10 36	89 45	7.5	10 0	Y	B	41.30	298.6	5.67	G
			7.5	12.0	Y	B	42.31	300.8	5.70	G
1466	10 38	84 44	7.0	8.0	O	B	41.21	238.1	6.62	C
			7.0	8.0	O	B	41.21	237.9	6.96	G
			6.5	8.0	Y	B	42.30	240.5	6.86	G
			7.0	8.5	W	B	42.36	239.3	6.87	G
1476	10 44	93 30	7.5	8.0	Y	B	42.30	355.3	2.16	G
			7.0	8.0	B	B	42.31	355.6	2.21	G
1487	10 50	64 43	6.0	7.5	Y	B	41.21	103.0	6.01	C
			6 0	7.5	Y	B	41.21	101.2	6.43	G
			6.0	8.0	O	B	42.30	103.9	6.08	G
			5.5	8.0	Y	B	42.31	104.1	5.91	G
1504	10 59	85 49	8.0	8.0	B	B	42.30	278.6	1.39	G
			8.0	8 0	B	B	42.31	280.6	1.30	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
1507	11^h 1^m	82° 26′	8.5	13.0	Y	B	41.21	166°.1	7″.91	C
			8.5	13.0	Y	B	41.21	164.8	7.87	G
			8.0	11.0	B	B	43.09	164.1	7.20	G
			8.0	11.0	B	B	43.33	163.3	7.79*	G
1511	11 2	78 32	8.0	8.0	B	B	41.29	284.2	7.58	G
			8.5	8.5	B	B	43.18	285.6	7.54	G
			8.5	8.5	B	B	43.33	285.9	7.52	G
1517	11 8	69 19	7.5	8.0	B	B	42.30	288.7	1.16	G
			7.5	8.0	B	B	42.33	288.8	1.00	G
1521	11 10	61 53	7.5	8.0	Y	B	42.30	94.6	3.45	G
			7.5	8.0	W	B	42.32	94.5	3.39	G
			7.0	7.5	W	B	43.33	95.6	3.66	G
1523	11 13	57 54	—	—	YW	YW	41.19	150.6	2.39	C
			—	—	YW	YW	41.19	150.8	2.53	G
			5.0	5.5	O	O	42.30	148.0	2.75	G
			4.5	5.0	O	O	42.31	148.3	2.67	G
			3.5	4.5	Y	Y	44.26	139.2	2.53	G
1524	11 13	56 21	2.5	9.0	OY	B	41.25	146.9	6.85	G
			2.5	9.0	Y	B	43.29	148.7	6.99	G
1527	11 14	75 11	7.0	8.0	Y	B	42.29	—*	3.14	G
			6.5	8.0	W	B	42.36	11.5	3.39	G
1529	11 15	91 6	6.0	6.5	Y	Y	41.29	251.6	9.80	G
			7.0	8.0	BW	B	43.30	252.4	9.74	G
1530	11 15	96 21	7.0	7.5	BW	BW	41.25	313.7	7.84	G
			7.5	8.0	B	B	42.32	312.5	8.09*	G
1536	11 19	78 55	3.0	8.0	Y	B	41.23	86.7	2.51	C
			3.0	8.0	Y	B	41.23	85.8	2.33	G
			6.0	10.0	O	B	42.29	86.2	2.46	G
			5.5	8.0	Y	B	42.32	89.2	2.61	G
			6.5	9.5	Y	B	44.26	87.1	1.82	G
			5.0	8.0	Y	B	44.31	87.9	1.88	G
1540	11 22	86 27	7.0	8.5	W	W	41.21	150.0	29.81	C
			6.0	6.5	Y	O	41.22	150.5	29.73	G
1541	11 22	43 9	7.0	8.5	W	B	41.25	28.1	8.13	G
			7.5	10.0	W	B	43.28	28.1	7.58	G
1543	11 24	50 7	7.5	10.0	Y	B	41.23	8.3	5.26	C
			7.5	10.0	Y	B	41.23	6.9	5.51	G
			5.5	9.5	Y	B	42.31	5.1	5.69	G
			5.5	9.5	Y	B	42.31	5.0	5.79	G
1544	11 26	29 45	6.0	7.0	Y	O	41.33	90.2	12.42	G
1547	11 27	75 5	7.0	10.0	Y	B	42.32	319.6	15.97	G
			7.0	9.0	Y	B	42.36	320.0	15.99	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
1552	$11^{h}\ 30^{m}$	72° 39′	6.5	8.0	W	B	41.32	209°.7	3″.33	G
			6.5	8.0	Y	B	42.30	210.7	3.36	G
			6.5	8.0	Y	B	42.36	210.7	3.29	G
1553	11 31	33 19	6.5	7.0	BW	BW	41.30	169.7	5.31	G
			7.5	8.0	B	B	43.29	170.6	5.40	G
1555	11 31	61 40	7.0	7.0	BW	BW	42.32	337.7	1.32	G
			7.5	7.5	B	B	42.32	342.7	1.11	G
1560	11 33	91 53	5.5	13.0	W	B	41.30	276.2	6.19	G
1561	11 34	44 20	5.5	7.5	W	B	41.25	266.5	10.55	G
1564	11 34	62 29	8.0	9.0	OB	OB	42.32	87.6	5.09	G
			8.0	9.0	W	B	42.36	88.6	5.06	G
1565	11 34	70 27	7.0	8.5	Y	B	42.32	303.0	21.35	G
			7.5	8.0	B	B	42.43	303.0	21.84	G
1566	11 35	68 25	8.0	12.0	B	B	42.32	352.8	3.00	G
			8.0	12.0	B	B	42.44	350.5	3.90	G
1582	11 51	67 28	7.5	10.0	Y	B	42.32	77.3	12.00	G
			7.5	9.0	B	B	42.44	76.6	11.92	G
1585	11 52	48 24	7.5	12.0	Y	B	42.32	107.5	4.84	G
			8.0	13.0	B	B	42.37	113.0	5.10	G
			7.5	13.0	B	B	42.44	110.7	4.65	G
1596	11 59	67 59	6.0	8.0	W	BW	41.32	239.7	3.38	G
			7.0	10.5	B	B	42.33	236.2	3.62	G
			6.0	8.0	Y	T	42.37	237.4	3.60	G
1606	12 6	49 33	7.5	8.0	B	B	42.32	351.1	1.40	G
			8.0	8.5	BW	BW	42.36	350.0	1.44	G
1608	12 7	36 1	5.5	6.0	OY	OY	41.34	223.1	11.00	G
			7.5	8.0	BW	BW	43.29	225.1	10.81	G
1619	12 10	96 42	6.5	7.0	BW	BW	42.32	287.6	8.13*	G
			7.5	8.0	B	B	42.42	285.9	7.88	G
1622	12 11	48 47	—	—	—	—	41.26	260.1	—	G
			5.0	7.5	O	B	41.28	259.6	11.70	G
1627	12 13	93 24	6.0	6.5	BW	BW	42.32	197.4	20.07	G
			6.0	7.0	B	B	42.42	196.9	19.90	G
1632	12 15	51 33	6.0	8.5	O	B	41.30	193.0	10.52	G
			7.0	9.5	Y	B	43.28	190.1	10.60	G
1633	12 16	62 24	6.0	6.0	W	Y	41.29	244.6	8.88	G
			7.0	7.5	B	B	43.28	244.6	9.03	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
1634	$12^h 16^m$	66° 32′	8.0	10.0	B	B	42.32	147°.9	5″.73	G
			8.0	10.0	B	B	42.44	149.9	5.15	G
1639	12 19	63 52	7.5	9.5	W	B	42.32	288.9	1.03	G
			7.5	9.0	B	B	42.37	293.6	1.10	G
1647	12 25	79 44	7.5	7.5	B	B	42.37	209.8	1.35	G
			7.5	8.0	B	B	42.44	208.3	1.09	G
1653	12 28	57 25	8.0	8.5	B	B	41.32	342.6	8.11	G
			8.5	9.0	B	B	43.28	339.3	8.26	G
1657	12 30	71 4	6.5	8.5	Y	B	42.32	271.0	20.45	G
			6.0	7.0	Y	B	42.44	271.5	20.23	G
			4.5	6.0	Y	B	42.45	271.7	20.30	G
1661	12 31	78 3	8.0	8.0	B	B	41.32	230.8	2.46	G
			9.0	9.0	B	B	43.28	228.5	2.37	G
1670	12 37	90 54	6.0	6.0	Y	Y	41.40	20.7	1.49	G
			5.0	5.0	Y	Y	41.48	21.1	1.36	G
			3.5	3.5	Y	Y	42.34	12.0	1.83	G
			4.0	4.0	Y	Y	42.37	12.5	1.87	G
			3.5	3.5	Y	Y	43.30	10.8	2.05	G
			4.0	5.0	Y	Y	44.33	9.3	2.63	G
1685	12 47	70 18	6.5	7.0	Y	YB	41.32	202.2	16.29	G
			7.0	7.5	W	B	43.26	201.5	16.24	G
1687 AB	12 48	68 13	5.5	8.0	Y	B	42.34	34.8	1.83	G
			6.0	8.0	Y	T	42.39	33.9	1.56	G
			5.5	7.5	Y	O	43.36	29.1	0.92	G
AC			5.5	8.5	Y	B	42.34	125.0	28.75	G
			6.0	9.0	Y	B	42.37	124.9	28.86	G
			5.5	9.5	Y	B	43.36	123.1	28.49	G
1690	12 51	94 19	7.5	9.0	W	B	41.30	146.7	5.78	G
			7.5	9.0	W	B	43.29	149.3	5.46	G
1719	13 2	88 52	6.5	7.0	B	B	42.33	4.4	7.43	G
			6.5	7.0	B	B	42.41	4.4	7.59	G
			7.5	8.0	B	B	43.36	3.8	7.22	G
1724	13 5	95 0	5.0	9.0	Y	B	41.31	342.8	7.10	G
			4.5	9.5	Y	B	43.39	342.2	7.07	G
1727	13 5	58 6	8.0	9.0	B	B	41.32	335.6	7.59	G
			8.5	10.5	B	B	43.29	336.3	7.22	G
1733	13 11	72 14	7.5	8.5	W	B	41.33	125.0	4.94	G
			8.5	10.0	B	B	43.34	126.6	4.71	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
1734	$13^h\ 16^m$	86° 32′	7.5 8.0	B B	42.41	201°.1	0″.85	G
			7.5 8.0	B B	42.44	202.4	0.87	G
			7.5 8.0	B B	43.34	198.3	0.64	G
1742	13 19	88 5	7.5 7.5	B B	42.41	356.1	1.36	G
			8.0 8.0	B B	42.44	358.7	1.44	G
1744	13 20	34 33	2.5 4.5	Y Y	41.30	148.1	14.65	G
1751	13 26	80 10	7.0 12.0	O B	41.40	62.5	6.50	G
			7.5 11.0	Y B	43.30	62.3	5.46	G
1757	13 29	89 48	7.5 8.5	B B	42.41	33.8	1.42	G
			7.5 8.5	B B	42.44	36.3	1.64	G
1760	13 30	63 13	7.0 7.5	B B	41.40	66.2	8.99	G
			8.0 8.5	B B	43.31	63.6	8.58	G
1763	13 32	97 22	7.5 8.0	B B	42.33	41.8	2.73	G
			7.5 8.0	B B	42.44	41.6	2.91	G
			7.5 7.5	BW BW	43.35	42.1	2.36	G
1768	13 33	53 12	6.0 8.0	B B	42.41	66.3	0.87	G
			6.0 8.5	BW B	42.43	67.5	0.91	G
1772	13 36	69 32	6.0 11.0	O B	41.30	144.6	4.56	G
			6.0 10.5	Y B	43.31	147.5	4.89	G
1776	13 38	43 17	7.5 8.0	B B	42.41	202.0	7.46	G
			7.5 7.5	B B	42.49	201.2	8.02	G
1777	13 38	85 57	6.0 8.0	Y B	41.40	235.7	3.20	G
			5.0 8.5	Y B	43.26	233.6	3.01	G
1785	13 45	62 31	7.5 8.0	B B	41.38	173.6	3.22	G
			8.0 8.0	BW BW	43.31	171.1	3.56	G
1788	13 50	97 34	7.0 8.0	B B	42.33	59.5	2.48	G
			6.5 7.0	W B	42.42	55.2	2.63	G
			6.0 7.5	Y B	43.35	58.7	2.42	G
1790	13 51	94 8	7.0 7.0	B B	41.32	240.1	5.67	G
			8.0 8.0	B B	43.36	240.5	6.04	G
1793	13 55	63 42	7.5 9.0	B B	42.41	241.7	4.57	G
			6.0 7.5	W B	42.44	239.8	4.04	G
1795	13 55	36 25	7.0 10.0	W B	41.30	1.9	7.71	G
1804	14 4	68 20	9.0 10.0	B B	41.30	23.4	4.13	G
			8.0 9.0	B B	43.31	20.9	4.43	G
1807	14 6	92 52	8.0 8.0	B B	42.40	26.7	7.30	G
			8.0 8.5	B B	42 44	28.6	7.60	G
			8.0 8.0	B B	43 36	27.4	7.19	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
1813	$14^{h}\ 8^{m}$	84° 8′	6.5 7.0	B W	41.41	192°.4	4″.90	G
			7.5 8.0	B B	42.41	192.5	4.76	G
			8.0 8.5	B B	43.36	192.0	4.87	G
1816	14 9	60 26	7.0 7.5	B B	42.42	81.0	1.54	G
			7.0 7.5	B B	42.44	81.7	1.59	G
			8.0 8.0	B B	43.34	80.4	1.40	G
1817	14 10	62 50	8.0 8.5	B B	42.42	6.1	1.29	G
			8.0 8.5	B B	42.44	6.2	1.52	G
			8.5 9.0	B B	43.34	7.4	1.14	G
1821	14 10	37 45	5.0 6.5	O T	41.30	237.0	12.83	G
1823	14 11	79 14	8.0 9.0	B B	42.42	152.2	3.20	G
			8.0 10.0	B B	42.44	152.9	3.64	G
			9.0 10.0	W B	43.46	150.9	3.31	G
1825	14 12	69 25	6.0 8.0	W B	41.33	181.6	3.63	G
			7.5 9.5	W B	43.31	186.2	3.33	G
1830	14 13	32 52	8.0 8.9	O B	41.33	269.9	5.16	G
			8.5 9.0	B B	43.31	271.9	4.70	G
1831	14 13	32 49	6.0 8.0	Y B	41.33	140.4	6.27	G
			7.0 9.5	W B	43.31	141.5	5.89	G
1833	14 17	97 19	7.0 7.0	B B	42.42	165.6	5.10	G
1837	14 19	101 13	7.5 9.0	Y B	42.42	323.2	1.39	G
1838	14 19	78 18	6.0 6.0	YW YW	41.29	334.3	9.05	G
			7.5 7.5	B B	43.31	335.2	9.18	G
1847	14 23	99 45	8.0 9.5	B B	42.42	250.9	19.40	G
1850	14 24	61 16	6.5 7.0	B B	42.43	262.2	25.46	G
			7.0 7.5	B B	42.62	262.7	25.40	G
1858	14 30	53 59	6.0 7.5	W Y	41.34	34.3	2.05	G
			8.0 8.5	B B	41.38	37.3	2.26	G
1864	14 36	73 9	5.5 6.0	Y P	41.44	99.3	5.74	G
			5.0 6.0	O Y	42.43	99.9	5.99	G
1865	14 36	75 51	5.0 6.0	Y B	42.43	306.4	1.22	G
			4.0 4.5	Y Y	42.51	307.0	0.88	G
			4.5 4.5	Y W	43.34	311.3	0.87	G
1866	14 37	80 3	8.0 8.5	B B	42.43	201.0	0.96	G
			8.5 9.0	BW BW	42.59	201.6	0.63	G
			8.0 8.0	B B	43.34	197.7	0.76	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
1867	$14^h 36^m$	58° 17′	7.5	8.5	B	B	42.43	21°.2	1″.13	G
			7.5	8.0	B	B	42.49	25.9	1.10	G
			8.0	8.5	B	B	43.34	20.3	0.98	G
1870	14 38	81 30	7.5	10.0	Y	B	41.44	228.5	4.29	G
			7.5	12.0	W	B	43.30	232.0	4.40	G
1873	14 40	81 53	6.5	7.0	Y	B	41.40	92.9	6.88	G
			7.5	8.0	B	B	43.30	95.0	6.57	G
1877	14 41	62 30	2.5	6.0	Y	BW	41.38	321.4	2.88	G
			2.5	6.0	O	Y	42.43	316.6	2.34	G
1878	14 39	28 19	5.5	10.0	W	B	41.31	337.9	3.31	G
			7.5	10.0	Y	B	43.31	337.9	2.95	G
1879	14 41	79 55	8.0	9.5	B	B	42.45	48.8	1.03	G
			8.0	10.0	B	B	42.46	47.6	0.77	G
			7.5	8.0	B	B	43.44	60.6	0.66	G
1882	14 42	28 29	6.0	8.5	Y	B	41.31	359.6	11.54	G
			7.5	9.0	Y	B	43.31	361.6	11.28	G
1883	14 44	83 37	7.5	8.0	B	B	42.42	271.1	1.13	G
			8.0	8.0	B	B	43.30	269.0	0.93	G
1884	14 44	65 13	7.0	8.5	B	B	42.42	50.6	1.08	G
			7.5	8.0	B	B	42.43	51.3	1.30	G
1886	14 46	79 53	7.0	9.0	Y	B	41.40	229.4	7.47	G
1888	14 47	70 29	5.0	7.5	Y	T	41.40	323.2	6.96	G
			5.0	7.0	Y	B	42.44	321.6	6.98	G
1890	14 46	40 52	5.5	6.0	BW	BW	41.37	45.1	3.25	G
1895	14 54	49 26	6.5	7.0	Y	B	41.37	44.9	12.84	G
1896	14 55	45 33	7.5	8.0	BW	BW	41.44	280.6	5.07	G
1904	14 59	84 7	6.5	6.5	G	G	41.40	345.6	9.86	G
1909	15 1	41 57	5.0	5.5	Y	B	41.37	236.9	3.68	G
1910	15 3	80 23	6.5	6.5	BW	BW	41.41	211.2	3.66	G
			7.0	7.0	B	B	43.33	210.1	3.69	G
1919	15 8	70 21	7.0	7.5	Y	B	42.43	10.4	25.00	G
			6.5	7.0	B	B	42.62	10.0	25.46	G
1921	15 8	50 57	7.5	7.5	B	B	42.43	283.3	30.87	G
			7.5	7.5	B	B	42.49	282.7	30.54	G
1930	15 14	87 51	5.5	13.0	R	B	42.45	40.0	9.09	G
			5.5	10.0	Y	B	42.50	40.3	10.13	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
1931	15h 14m	79° 13′	6.5	7.0	W	B	41.40	172°.3	13″.51	G
			6.5	7.5	Y	B	43.33	171.7	13.00	G
1934	15 14	45 54	7.5	7.5	B	B	41.44	44.7	5.58	G
			8.5	8.5	BW	BW	43.70	44.0	5.62	G
1935	15 16	58 57	8.0	8.5	B	B	42.45	287.6	8.82	G
			8.5	8.5	B	B	42.63	288.3	8.61	G
			8.5	9.0	BW	BW	43.70	288.9	8.29	G
1937	15 19	59 21	5.0	5.7	YB	YB	41.51	143.9	0.51	G
			4.5	5.5	Y	Y	42.42	159.0	0.70	G
			5.5	6.0	Y	Y	43.70	172.5	0.50	G
1942	15 22	68 12	8.0	9.5	B	B	42.45	91.9	9.42	G
1943	15 23	84 17	8.0	9.0	B	B	41.45	150.9	5.82	G
			8.5	9.0	B	B	43.34	152.2	5.81	G
1950	15 26	64 9	7.5	9.0	O	T	41.44	94.6	3.20	G
1952	15 27	80 0	7.5	9.0	B	B	42.45	221.8	16.29	G
			7.5	8.5	W	B	43.70	222.9	15.61	G
1953	15 28	84 10	8.0	9.5	B	B	41.45	255.5	6.23	G
			8.5	10.0	B	B	43.70	254.6	6.67	G
1954	15 30	79 7	4.5	6.0	Y	Y	41.41	196.0	2.67	G
1963	15 34	59 34	6.0	6.5	B	B	42.45	290.6	3.99	G
			6.5	7.0	B	B	42.50	292.5	4.36	G
1965	15 36	53 2	5.5	7.0	Y	B	42.45	300.8	6.08	G
			5.0	6.0	Y	B	42.50	299.9	5.95	G
			5.0	6.0	Y	B	42.50	300.0	5.80	G
1970	15 42	74 16	4.0	10.5	Y	B	42.49	264.5	31.80	G
			4.5	11.0	Y	B	42.70	266.2	31.50	G
			3.5	9.5	Y	B	43.42	264.7	31.18	G
1973	15 43	53 15	7.5	8.0	B	B	42.50	322.5	31.26	G
			7.5	8.5	W	B	42.70	322.5	30.65	G
			7.5	8.5	Y	B	43.62	322.7	30.75	G
1977	15 45	64 14	7.5	10.0	B	B	42.45	358.5	13.70	G
			8.0	10.0	B	B	42.62	364.1	13.98	G
1985	15 51	91 52	6.5	9.0	OY	B	41.45	327.3	5.43	G
			7.5	7.5	Y	B	43.42	327.0	5.69	G
1987	15 52	86 19	7.0	8.0	BW	B	42.49	322.0	10.66	G
			7.5	9.0	Y	B	42.68	322.0	10.72	G
			7.0	8.0	W	B	43.41	322.4	10.10	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
1988	15h 52m	77° 15′	7.5 8.0	YB YB	41.47	266°.5	2″.90	G
			7.5 8.0	B B	43.40	265.6	2.43	G
2007	16 1	76 24	6.0 7.5	Y B	42.48	326.0	32.83	G
			6.5 7.5	W B	42.70	327.6	32.77	G
			7.0 7.5	Y B	43.39	326.8	32.84	G
2010	16 4	72 41	5.0 6.0	O B	42.48	9.3	31.10	G
			5.5 6.5	Y B	42.51	9.2	30.36	G
2011	16 4	60 44	7.5 10.0	B B	42.48	66.8	1.83	G
			7.0 10.0	Y B	42.51	70.0	2.18	G
2017	16 8	75 12	7.5 8.0	W B	42.49	250.5	25.29	G
			8.0 8.5	W B	42.70	250.6	25.66	G
			7.5 8.0	Y B	43.42	251.1	25.33	G
2021	16 9	76 12	7.0 7.0	B B	41.47	316.6	3.47	G
			7.0 7.5	B B	43.39	320.7	3.18	G
2032	16 11	55 54	— —	Y B	39.75	142.2	1.31	C
			4.5 5.5	Y B	41.54	148.3	1.56	G
			5.0 6.0	Y B	42.41	153.9	1.35	G
			6.0 7.0	W B	43.68	160.7	1.63	G
2052	16 25	71 23	5.0 5.5	OY OY	41.51	106.0	2.77	G
			7.5 7.5	B B	43.39	107.2	2.55	G
2055	16 26	87 48	4.5 6.0	Y Y	41.51	5.3	0.97	G
			4.0 6.0	O O	42.43	357.7	1.04	G
			— —	Y Y	43.39	2.7	1.10	G
2084	16 38	58 13	3.5 8.0	Y T	42.61	138.9	1.19	G
2087	16 38	66 10	7.0 7.0	B B	41.54	289.6	5.83	G
			8.0 8.0	B B	43.42	290.9	5.71	G
2094 AB	16 40	66 18	7.5 8.0	B B	43.42	82.2	1.21	G
AC			7.5 11.5	B B	43.42	311.1	24.37	G
2104	16 45	53 54	6.5 8.0	Y B	41.51	19.6	6.06	G
			7.5 8.2	W B	43.55	20.4	5.92	G
2120	17 1	61 46	— —	— —	40.65	345.3	—	C
			— —	Y B	40.66	350.2	2.71	G
			7.0 9.5	W B	43.68	340.8	2.10	G
			7.5 10.0	Y B	44.33	342.5	2.39	G
2140	17 10	75 30	— —	O B	40.65	118.8	4.76	C
			2.5 7.0	O B	41.47	116.4	4.45	G
2147	17 14	61 0	7.0 13.0	Y B	43.55	97.0	7.50	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
2160	$17^h\ 20^m$	74° 18′	7.0 12.0	B —	41.54	69°.8	3″.60	G
			6.0 11.0	BW B	43.55	66.1	3.54	G
2178	17 26	55 0	7.5 10.0	Y B	41.51	129.3	10.72	G
			7.5 9.5	W B	43.55	131.6	10.51	G
2213	17 41	58 50	6.5 7.0	B B	41.52	334.7	4.77	G
			7.5 8.0	B B	43.47	333.1	4.80	G
2245	17 52	71 39	7.0 7.0	Y B	42.60	114.6	2.36	G
			7.0 7.0	Y BW	42.69	114.9	2.50	G
			7.0 7.0	T B	43.58	113.9	2.23	G
2262	17 58	98 11	5.0 6.0	Y Y	44.74	218.7	0.80	G
2264	17 57	68 25	4.0 4.0	O W	41.54	262.1	6.18	G
			5.0 5.5	BW O	43.58	260.0	6.10	G
2272	18 1	87 28	5.0 7.0	Y B	42.60	124.9	6.45	G
			5.5 7.0	Y B	42.64	125.2	6.65	G
			4.5 6.0	Y B	43.47	124.0	6.85	G
			4.0 6.0	Y B	43.55	124.4	6.57	G
			4.5 7.0	Y B	43.67	122.6	6.69	G
			5.0 7.0	Y B	44.60	121.5	5.96	G
2276	18 1	78 0	6.5 7.0	BW B	41.54	257.6	6.86	G
			6.5 7.5	B B	43.47	256.2	6.78	G
2278	18 1	33 34	6.0 6.5	B B	42.61	23.2	38.81	G
AB			6.5 7.0	B B	42.70	23.8	38.61	G
			7.0 7.5	YB YB	43.61	22.7	38.99	G
BC			6.0 7.5	B B	42.61	146.8	6.29	G
			6.5 8.0	B B	42.70	147.4	6.36	G
			7.0 8.0	YB B	43.61	145.2	6.18	G
2296	18 10	93 23	7.5 12.0	Y B	43.58	13.1	3.37	G
2316	18 22	89 52	5.5 9.0	Y B	42.60	313.3	3.80	G
			6.0 8.5	Y B	42.69	312.5	4.01	G
			6.0 8.0	Y B	43.58	313.4	3.97	G
2339	18 29	72 21	7.5 9.0	B B	42.60	272.0	2.84	G
			7.5 9.0	Y B	42.62	270.1	2.49	G
			7.5 8.5	W B	43.63	270.8	2.08	G
2369	18 39	87 29	7.5 8.5	W B	42.65	97.2	1.29	G
2375	18 41	84 36	7.0 7.3	B B	42.60	112.0	2.01	G
			7.0 7.0	B B	42.62	111.5	1.79	G
			6.5 7.0	BW BW	43.69	111.7	1.90	G
2382	18 41	50 30	— —	— —	39.95	23.9	3.48	C
			5.0 6.0	Y B	41.75	24.5	3.10	G
			5.5 7.0	Y B	43.69	21.2	3.07	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
2383	18h 41m	50° 26′	—	—	—	—	39.95	150°.7	2″.61	C
			5.0	5.0	Y	Y	41.75	152.6	2.42	G
			6.0	6.0	Y	Y	43.69	151.8	2.43	G
2400	18 44	73 52	8.0	12.5	Y	B	42.67	280.7	2.00	G
			8.0	12.0	BW	—	42.69	281.4	1.94	G
2402	18 45	79 26	8.0	8.5	B	B	42.61	217.9	0.58	G
			8.0	8.0	B	B	42.70	216.0	0.73	G
			8.5	9.0	B	B	43.58	213.5	0.57	G
2404	18 46	79 8	7.0	8.0	B	B	42.60	184.7	3.49	G
			6.5	8.0	Y	B	42.62	186.2	3.50	G
			6.5	7.5	Y	B	43.61	184.2	3.51	G
2408	18 47	79 21	8.0	9.0	W	B	42.67	94.6	2.43	G
2409	18 47	76 36	7.5	8.5	B	B	42.61	36.0	0.80	G
			8.5	9.5	B	B	43.58	35.3	0.76	G
2415	18 50	69 31	7.0	9.0	B	B	42.61	296.4	2.14	G
			7.5	9.5	W	B	42.69	293.9	1.93	G
			7.0	8.5	B	B	43.58	297.3	2.00	G
2422	18 53	64 2	7.0	7.2	B	B	42.61	103.5	0.75	G
			7.5	8.0	B	B	42.62	105.1	0.75	G
			7.5	8.0	B	B	43.61	100.5	0.71	G
2437	18 58	70 58	7.0	8.0	B	B	42.65	72.9	0.85	G
2445	19 0	66 49	7.0	9.0	W	B	42.64	263.6	12.46	G
			7.0	9.0	W	B	42.70	263.9	12.66	G
2448	19 0	54 26	8.0	8.3	B	B	42.60	193.3	2.42	G
			8.0	8.0	BW	BW	42.69	192.5	2.34	G
			8.0	8.0	B	B	43.61	192.2	2.48	G
			8.5	8.5	B	B	44.66	193.5	2.13	G
2449	19 2	83 0	7.5	8.0	B	B	42.60	291.6	7.85	G
			8.0	8.5	B	B	42.64	292.0	8.14	G
			7.0	7.5	Y	W	43.58	291.8	8.20	G
2461	19 4	57 39	6.0	11.0	Y	B	42.67	326.2	4.36	G
			5.5	11.0	Y	B	42.69	326.9	3.99	G
2466	19 4	60 22	7.5	8.0	B	B	42.67	106.4	2.41	G
			8.0	8.5	B	B	42.69	108.1	2.37	G
2484	19 10	71 6	8.5	10.0	W	B	43.66	223.4	2.63	G
			8.0	9.0	B	B	43.66	221.7	2.41	G
2486	19 10	40 20	6.5	7.0	B	B	42.60	223.9	10.33	G
			6.5	7.0	B	B	43.68	223.0	10.38	G
2489	19 12	75 38	7.5	10.0	Y	B	43.67	347.0	8.18	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
2490	$19^h\,13^m$	93° 39′	8.5 11.0	B B	43.67	249°.8	2″.91	G
2499	19 14	68 15	8.0 8.5	B B	42.67	324.6	2.42	G
			8.0 8.5	B B	42.69	326.7	2.26	G
2500	19 15	70 28	8.0 9.5	W B	42.69	26.4	20.44	G
2504	19 17	71 3	7.5 9.0	Y B	42.69	288.6	8.91	G
2523	19 22	69 3	7.0 7.5	B B	41.67	148.5	6.13	G
			7.0 7.0	B T	43.58	149.0	6.36	G
2525	19 22	62 52	7.0 7.5	B B	41.70	250.7	1.03	G
			7.0 8.0	BW BW	42.73	250.5	0.82	G
			8.0 8.0	B B	43.61	255.0	0.93	G
2534	19 24	53 41	7.0 8.0	B B	41.71	66.1	6.73	G
			8.0 9.0	B B	43.66	64.1	6.74	G
2556	19 35	67 58	7.5 8.0	B B	41.71	193.4	0.74	G
			8.0 8.0	B B	42.82	169.5	0.42	G
			8.0 8.5	B B	43.61	185.8	0.45	G
2576	19 42	56 38	7.5 8.0	B B	41.67	314.7	3.46	G
			7.0 8.0	B B	43.68	316.4	3.15	G
2579	19 42	45 7	3.0 9.0	O B	41.73	26.3	1.41	G
			3.5 8.0	Y B	43.63	24.5	1.51	G
2583	19 44	78 26	6.5 7.0	B B	41.70	118.6	1.27	G
			7.0 7.5	Y B	43.58	123.5	1.30	G
			6.5 7.0	B B	43.63	123.9	1.39	G
2600	19 51	67 47	8.0 9.5	W B	43.62	56.3	3.03	G
2605	19 53	37 50	3.5 7.5	Y B	41.70	186.6	3.43	G
			5.5 8.5	Y B	42.68	184.9	3.32	G
			5.0 8.0	Y B	43.63	185.6	3.45	G
2606	19 55	57 0	7.0 7.5	B B	41.71	132.6	1.19	G
			8.0 8.5	B B	43.63	132.8	1.25	G
2609	19 55	52 10	7.0 8.0	W B	41.67	27.4	2.26	G
			6.5 7.5	W B	43.66	26.5	2.06	G
2610	19 55	54 44	8.0 8.5	B B	41.73	294.6	4.16	G
AB			8.0 8.5	B B	43.68	296.2	4.05	G
AC			8.0 12.0	B B	43.68	201.7	12.48	G
2611	19 56	42 55	7.0 8.0	B B	41.71	204.8	4.97	G
			8.0 8.0	B B	43.62	206.8	5.14	G
2613	19 57	79 32	7.0 7.5	B B	41.73	348.1	5.24	G
			7.0 7.5	B B	43.61	349.1	4.59	G
			7.5 7.5	B B	44.61	350.1	4.34	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
2616	$19^h 58^m$	75° 42′	6.5 11.0	Y B	41.70	267°.4	3″.02	G
			7.5 10.0	W B	43.61	264.9	3.36	G
			7.5 9.5	W B	44.61	266.8	3.07	G
2618	19 59	74 49	8.0 8.0	B B	41.75	115.0	5.63	G
			8.5 9.0	B B	43.61	116.2	5.19	G
			8.5 9.0	B B	44.61	115.2	5.10	G
2619	19 58	42 1	8.0 8.0	B B	41.71	247.7	4.32	G
			8.0 9.0	B B	43.62	246.1	4.27	G
2624 AB	20 0	54 15	7.5 8.0	Y B	41.65	178.6	1.81	G
			7.5 8.0	W Y	43.62	175.6	2.11	G
AC			7.5 9.5	Y B	41.65	327.6	42.42	G
			7.5 9.0	W B	43.62	327.5	42.73	G
2626	20 0	59 45	8.0 8.0	B B	42.65	121.6	1.38	G
2631	20 3	69 11	7.0 8.0	Y B	41.75	339.3	4.49	G
			7.5 8.5	W B	43.61	337.5	4.41	G
2635	20 5	81 51	7.0 11.5	O B	41.75	78.2	7.71	G
			7.5 10.5	Y B	43.61	79.9	6.90	G
2643	20 8	93 18	6.0 9.0	W B	41.71	69.2	3.26	G
			8.0 11.0	B B	42.82	72.8	3.15	G
			7.5 9.5	W B	43.62	71.4	3.40	G
2644	20 7	89 26	6.5 7.0	B B	41.68	209.8	3.32	G
			7.0 7.0	BW BW	42.82	208.9	3.49	G
			7.0 8.0	BW BW	43.74	206.2	3.32	G
2651	20 9	74 9	8.0 9.0	B B	42.82	281.8	1.27	G
			8.0 9.0	B B	42.82	280.9	1.25	G
			8.0 9.0	B B	43.74	280.2	1.30	G
2653	20 9	66 4	6.5 12.0	O B	41.67	265.5	2.13	G
			7.5 11.0	Y B	42.82	261.3	2.55	G
			7.5 10.0	Y B	43.62	260.6	1.92	G
2658 AB	20 11	37 11	7.0 9.0	Y B	41.73	125.6	5.23	G
			8.0 8.0	Y B	42.91	124.2	5.34	G
			7.5 9.5	B B	43.73	125.3	5.30	G
AC			7.0 9.5	Y B	41.73	215.7	33.94	G
			7.0 9.5	Y B	42.91	215.2	33.95	G
			7.0 10.0	B B	43.73	215.7	34.19	G
2659 AB	20 12	46 40	— —	— —	40.70	315.3	2.43	G
			6.5 9.5	Y B	41.69	315.3	3.43	G
			8.0 10.0	Y B	43.76	313.9	2.61	G
AC			— —	— —	40.70	251.5	—	G
			6.5 8.5	Y T	41.69	253.9	20.41	G
			8.0 9.5	Y B	43.76	252.9	20.39	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
2665	$20^h\ 15^m$	75° 57′	7.0 11.0	W B	41·70	18°.9	3″.25	G
			7·5 10.0	W B	42.82	17.6	3.51	G
			7·5 10.0	W B	43.62	18.6	3.26	G
2666	20 15	49 35	5·5 7·5	O R	41·71	244·4	2.65	G
			7·5 9.0	W B	42.82	244·7	2.61	G
			7·5 9.0	Y B	43·76	243·3	2.95	G
2667	20 14	44 41	8.0 8.0	B B	41·71	226.8	8.06	G
			8.0 8.5	B B	42.91	226.2	8.27	G
			8.0 8.5	W B	43·79	226.6	8.09	G
2668	20 17	50 56	5.0 5·7	O R	41·71	288.0	2.92	G
			6.5 8.5	Y T	42.82	288.3	3·32	G
			7·5 9.0	W B	43·79	287.6	2.94	G
2671	20 16	34 55	6.5 8.5	W B	42.68	341·3	2.84	G
2681	20 20	36 54	7·5 11.0	B B	41·74	40·3	6.62	G
AB			7.0 11.0	W B	42.91	41·5	6.70	G
			7·5 11.0	W B	43.87	39·5	6.55	G
AC			7·5 8.0	B B	41·74	203·4	41.78	G
			7.0 8.0	W B	42.91	203·3	42.08	G
			7·5 8.5	W B	43.87	203.6	41.65	G
AD			7.0 11.0	W B	42.91	171.9	44.40	G
2690	20 26	79 5	5·5 6.5	BW BW	41.68	256.1	15.15	G
			7·5 7·5	B R	43·79	256.4	14.65	G
2695	20 28	64 32	7.0 9.0	B B	41·75	78.2	0.83	G
			7.0 8.5	B B	42.82	79.8	0.70	G
			6.5 8.0	— —	43·78	80.8	0.87	G
2702	20 32	55 11	8.0 8.0	B B	41·73	204.8	2.90	G
			8.0 8.0	B B	42.83	204.2	3.19	G
2708	20 35	51 43	6.5 9.0	Y Y	41·73	345·4	13·93	G
			7.0 9.0	Y B	41·74	345·4	13·54	G
2720	20 39	73 25	7·5 8.0	B B	41·76	185.0	3.88	G
			8.0 9·5	B B	42.83	187·5	3.81	G
			8.0 8.5	B B	43·79	186.6	3.85	G
2723	20 40	78 3	7·5 9.0	Y B	41·76	86.3	1·44	G
			6.5 8.5	B B	42.80	87·5	1.19	G
			7·5 8.5	W B	43·71	86.8	1.12	G
2725	20 42	74 28	7.0 8.0	B B	41·70	358·7	4·42	G
			7·5 8.5	B B	42.83	355·5	4.29	G
2727	20 42	74 14	4.0 5.0	Y B	41·74	273·3	12.27	G
			5.0 6.0	O B	42.83	273.0	12.24	G
			5·5 7.0	Y B	43·71	273.0	12.00	G
			4·5 6.0	Y B	43·79	273·3	12.16	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
2729	20^{h} 46^{m}	96° 0′	5.0	7.5	W	B	42.65	7°.4*	0″.55	G
			5.5	7.0	W	B	42.91	31.1*	0.42	G
			5.5	7.0	—	—	43.63	21.0*	0.5	G
2738	20 54	73 37	7.5	8.0	B	B	41.80	255.0	15.05	G
			8.0	9.5	B	B	42.83	255.0	14.91	G
			7.5	8.0	W	B	43.79	255.3	14.95	G
2741	20 55	39 55	—	—	—	—	39.79	35.7	1.80	C
			6.0	7.0	O	B	41.76	36.2	1.87	G
2743 AB	20 56	42 52	5.5	10.0	O	B	41.96	350.7	20.50	G
			5.0	9.0	Y	B	42.60	352.3	20.19	G
AC			5.5	12.0	O	—	41.96	142.5	—	G
			5.0	13.0	Y	B	42.60	140.6	26.70	G
2747	20 58	52 45	7.5	8.0	B	B	41.70	257.0	4.51	G
			7.5	7.5	BW	BW	42.84	258.1	4.80	G
			8.0	8.0	B	B	43.80	257.4	4.11*	G
2750	21 0	77 41	8.5	9.5	Y	B	41.80	281.0	17.10*	G
			8.0	9.5	W	B	42.83	279.3	16.30	G
			8.0	9.0	B	B	43.79	281.0	16.37	G
2757	21 1	38 0	7.5	9.0	B	B	41.76	269.7	1.79	G
			8.5	10.0	W	B	42.96	268.5	1.57	G
2758	21 2	51 46	—	—	—	—	39.74	96.5	16.89	C
			—	—	—	—	39.78	96.5	16.26	C
			—	—	—	—	39.79	96.1	16.00	C
			4.5	6.0	O	W	41.80	96.1	16.55	G
			4.5	6.0	O	B	41.85	96.3	16.79	G
			4.5	5.5	O	Y	41.90	97.3	16.55	G
			5.5	6.5	O	Y	43.67	99.0	16.63	G
			5.0	6.0	Y	B	44.69	99.9	16.66	G
			5.5	6.0	Y	BY	44.73	99.7	16.51	G
2759	21 2	57 57	8.0	9.0	B	B	41.80	317.0	15.27	G
			8.5	9.5	B	B	42.84	314.7	14.54	G
			8.5	9.0	B	B	43.67	317.9	14.23	G
2760	21 3	56 16	7.5	8.0	W	B	41.81	223.9	12.44	G
			7.5	8.5	W	B	42.84	223.6	12.22	G
			7.5	8.0	B	B	43.67	223.7	11.93	G
2769	21 6	67 58	6.5	8.0	Y	B	41.81	299.4	18.04	G
			5.0	6.0	Y	B	42.83	299.5	17.31	G
			6.5	7.5	Y	B	43.79	299.5	17.84	G
2776 AB	21 10	100 46	—	—	—	—	39.90	51.6	85.18	C
			7.5	10.0	B	G	43.72	51.2	85.40	G
BC			—	—	—	—	39.90	343.9	—	C
			10.0	11.0	B	B	43.72	338.0	4.44*	G
			8.5	11.0	B	B	44.89	336.8	5.73	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes		Colours		Date 1800·0 +	Position angle	Distance	Observer
2777	21h 10m	80° 24′	—	—	—	—	39.89	35°.3	28″.57	C
			5.0	10.0	Y	B	43.79	33.7	29.35	G
2781	21 11	98 4	7.0	8.0	B	B	43.70	170.4	2.84	G
2789	21 16	37 27	6.0	7.0	B	B	41.81	115.7	6.19	G
			7.0	8.0	B	B	42.96	117.1	5.87	G
2813	21 33	32 58	8.0	8.5	B	B	41.79	273.5	10.50	G
			8.5	9.0	B	B	42.86	272.4	10.38	G
2815	21 35	32 53	7.5	9.5	BW	B	41.79	82.7	7.95	G
2816	21 36	32 58	5.0	7.5	Y	B	41.71	121.8	12.22	G
AC			—	—	Y	B	42.86	121.2	11.74	G
AD			5.0	7.5	Y	B	41.71	339.1	19.68	G
			5.0	8.0	Y	B	42.86	339.4	19.66	G
2819	21 37	32 53	7.5	8.5	Y	B	41.79	57.4	12.72	G
			7.5	8.5	Y	B	42.86	56.9	12.57	G
2822	21 40	61 42	5.0	7.5	O	BW	41.79	115.4	5.00	G
			6.5	8.0	Y	B	42.90	115.8	5.15	G
2834	21 47	71 10	7.0	11.0	Y	B	41.85	285.7	4.32	G
			7.5	12.0	Y	B	42.81	288.8	4.36	G
			7.5	11.0	Y	B	43.67	289.5	4.43	G
2840	21 49	34 41	6.0	7.0	W	B	41.85	194.5	19.71	G
			6.5	7.5	Y	W	42.86	194.5	19.81	G
2848	21 53	84 32	7.0	7.5	B	B	41.88	56.8	10.93	G
			7.0	7.5	B	B	42.90	55.8	10.77	G
			7.0	7.5	W	B	43.77	55.4	10.50	G
2861	22 1	69 42	7.5	8.0	B	B	41.74	223.5	7.39	G
			8.0	8.5	B	B	42.81	221.2	7.24	G
			7.5	8.0	B	B	43.77	222.2	7.23	G
2872	22 5	31 12	7.0	7.0	BW	BW	41.86	316.1	21.57	G
AB			7.0	7.5	B	B	42.96	316.5	21.59	G
BC			8.0	8.5	B	B	42.96	339.1	0.39	G
2878	22 10	82 31	7.5	8.5	W	B	42.74	135.7	1.36	G
AB			7.5	8.5	W	B	43.71	135.7	1.11	G
AC			7.5	11.0	W	B	43.71	274.0	14.92	G
2881	22 10	60 55	6.5	7.0	B	B	41.81	107.4	1.68	G
			7.5	8.0	W	B	42.90	109.4	1.36	G
			8.0	9.0	B	B	43.77	107.9	1.23	G
2882	22 10	52 45	8.0	8.0	B	B	41.86	328.8	— *	G
			8.5	9.0	B	B	42.92	326.1	2.94	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
2889	22h 12m	64° 14′	7.5 9.5	W B	41.81	198°.4	2″.03	G
			8.5 10.0	W B	42.80	194.9	2.02	G
2900	22 19	69 39	— —	YW —	40.67	173.0	2.45	C
AB			5.0 9.0	Y B	41.85	175.4	2.56	G
			6.5 9.5	Y B	43.79	180.7	2.34	G
AC			— —	RW BW	40.67	340.1	57.75	C
			5.0 7.0	Y B	41.85	340.0	57.79	G
			6.5 8.0	Y B	43.79	339.1	57.88	G
2902	22 19	45 9	7.5 8.0	O B	41.85	89.3	6.01	G
			7.5 8.0	Y B	42.92	88.7	6.08	G
2909	22 24	90 32	5.0 5.5	Y Y	41.85	350.9	3.55	G
			4.0 4.0	Y Y	44.69	348.3	3.67	G
2912	22 25	86 5	5.5 8.0	B B	41.90	113.9	1.21	G
			7.0 8.5	W B	42.80	117.0	0.98	G
2916	22 27	49 18	7.0 10.0	Y B	41.86	34.0	3.99	G
BC			7.5 9.0	W B	42.92	36.4	2.52*	G
			9.5 10.5	B B	43.89	28.8	3.26	G
AB			7.0 9.0	Y B	41.86	334.1	45.71	G
			7.5 9.0	W B	42.92	335.5	46.30	G
			7.5 9.5	W B	43.89	335.1	46.49	G
2944	22 43	94 45	6.0 6.0	W W	41.90	249.7	4.00	G
AB			7.0 7.5	B B	42.80	246.8	3.88	G
AC			6.0 8.5	W B	41.90	154.3	53.97	G
			7.0 8.0	B B	42.80	155.2	53.78	G
2958	22 52	78 41	7.5 10.0	Y B	41.90	9.3	3.82	G
			7.5 9.5	W B	42.81	9.1	3.67	G
			8.0 10.5	B B	44.69	9.9	3.25	G
2978	23 3	57 43	6.0 7.5	W B	41.89	146.5	8.93	G
			7.5 8.5	W B	42.92	146.0	8.41	G
3012	23 23	73 55	9.0 9.5	W B	41.93	190.7	2.36	G
			8.0 9.5	B B	42.80	192.5	2.83	G
			8.5 9.0	B B	43.78	192.2	2.00*	G
3013	23 23	73 55	8.0 10.0	B B	41.93	268.6	2.77	G
			7.5 9.5	W B	42.80	267.5	2.80	G
			7.5 9.5	B B	43.78	270.5	2.51*	G
3012 and 3013					41.93	246.6	52.02	G
					42.80	245.5	52.09	G
					43.78	245.9	51.99	G
3024	23 27	46 44	8.0 9.5	W BW	40.65	309.8	5.02	C
3062	0 2	32 7	7.0 8.0	W B	41.90	198.2	0.73	G

APPENDIX I.

ADDITIONAL MEASURES OF STARS IN THE PRECEDING LIST

Σ 5	1844.06 44.83	161°.5 162.0	7″.30* 8.04	G G
12	44.06	150.0	11.45	G
19	44.06	135.8	1.62*	G
22	44.83	235.8	4.68	G
24	44.83	247.5	4.89	G
25	44.83	194.0	1.37	G
40	44.87	311.6	11.53	G
46	44.87	195.3	6.36	G
51	44.87	131.3	3.59	G
60	44.87	100.3	8.75	G
61	44.89	118.6	4.31	G
73	44.89	328.5	1.01	G
99	44.89	228.6	8.07	G
113	43.96 44.89	340.8 347.1	0.96* 0.98*	G G
138	44.12	26.6	1.12	G
162 AB	44.89	225.2	1.40	G
AC	44.89	180.6	20.04	G
174	44.90	171.5	2.56	G
178	44.90	194.8	3.09	G
179	44.90	161.2	3.17	G
180	44.12 44.91	0.2 358.9	8.74 8.54	G G
186	44.12 44.91	63.0 65.3	0.81 0.75*	G G
194	44.91	262.4	0.89	G
202	44.91	329.7	3.76	G
401	44.17	270.0	11.24	G
Σ 535	1844.09	350°.1	1″.61	G
559	44.14	278.1	3.62	G
577	44.09	273.3	1.57	G
616	44.09	350.6	6.48	G
644	44.09	220.7	1.58	G
652	44.09	184.3	1.63	G
653 AB	44.11	226.5	14.92	G
AC	43.12 44.11	338.4 340.7	12.29 12.29	G G
654	44.11	64.6	6.89	G
668	40.12	202.2	—	Snow
694	44.07	355.6	1.05*	G
716	44.11	199.1	4.78	G
728	44.10	205.5	0.65	G
729	44.10	27.1	1.70	G
734*AB	44.13	355.7	1.76	G
AC	44.13	243.4	28.97	G
738	44.08	42.3	4.45	G
748 AB	41.19	32.0	8.36	G
AC	40.06 41.19	134.0 129.9	— 13.25	C G
AD	41.19 41.19	95.1 95.4	21.84 21.61	G G
BC	40.12	—	16.68	C
BD	41.19	118.3	19.83	G
CD	40.06 40.09 41.19	60.6 61.4 63.3	12.77* 13.35 13.24	C C G
757	44.09	237.6	1.30	G

Σ 758	1844.09	300°.0	10″.84	G
757 758 } *	44.09	86.9	51.78	G
774	44.09	153.3	2.65	G
795	44.10	202.5	1.38	G
840 BC	44.14	182.0	0.59	G
A $\frac{BC}{2}$	42.15	247.0	21.10	G
	43.16	248.2	21.41	G
	44.14	248.2	21.10	G
848 AB	44.08	108.6	1.80	G
AC	44.08	120.8	28.32	G
AD	44.08	182.6	43.77	G
AE	44.08	294.9	14.95	G
953	44.10	329.3	6.98	G
1009	44.27	157.6	2.85	G
1033	44.27	276.2	1.37	G
1037	44.27	326.4	1.22	G
1083	44.10	45.0	6.13	G
1116	44.18	114.5	1.62	G
1126	44.18	134.1	1.27	G
1186	44.27	221.2	3.28	G
1196 AC	42.15	146.8	4.79	G
$\frac{AB}{2}$C	41.22*	148.8	5.09	G
1200	44.24	359.7	8.26	G
1223	44.10	214.4	4.71	G
1224	44.12	39.4	5.68	G
1244	44.24	1.8	3.19	G
1245	41.21	25.7	10.27	C
	44.12	26.4	10.49	G
1258	44.24	332.2	9.60	G
1263	44.24	13.5	16.34	G
1268	44.14	306.9	30.21	G
1288	44.27	259.5	7.65	G
Σ 1289	1844.14	3°.1	3″.90	G
1291	44.27	334.2	1.32	G
1298	44.14	139.0	4.37	G
1311	44.25	201.6	7.19	G
1312	44.14	148.8	4.30	G
1318	44.14	248.1	3.73	G
1322	44.25	56.4	1.52	G
1333	44.24	39.9	1.39	G
1338	44.24	128.8	1.77	G
1340	44.24	318.2	6.48	G
1346	44.24	310.5	5.91	G
1348	44.25	331.0	1.37	G
1355	44.25	327.6	2.70	G
1365	44.25	160.3	3.46	G
1377	44.25	141.4	3.25	G
1396	44.25	130.7	3.25	G
1417	44.25	260.4	2.08	G
1426 AB	44.25	256.7	0.99	G
$\frac{AB}{2}$C	41.23	8.4	7.44	C
	41.23	9.4	7.59	G
	44.25	8.8	7.05	G
1428	42.44	84.2	3.73	G
	42.26	86.7	3.59	G
1431	44.25	67.2	2.94	G
1439	44.25	128.5	1.50	G
1447	44.25	125.2	4.34	G
1460	44.26	167.0	3.00	G
1464	44.25	299.2	5.32	G
1476	44.26	355.7	2.21	G
1504	44.26	279.2	1.10	G
1517	44.26	290.8	0.81	G

Σ 1524	1844.26	149°.4	6″.36	G
1527	44.26	12.1	3.90	G
1530	44.27	312.4	7.71	G
1540	44.29	150.7	29.64	G
1541	44.30	28.8	7.41	G
1547	44.30	319.1	15.72	G
1555 AB	44.30	339.2	1.04	G
AC	44.30	140.4	19.26	G
1560	44.32	277.2	5.03	G
1561	44.30	264.6	10.41	G
1564	44.32	87.9	4.88	G
1565	44.32	303.5	21.89	G
1566	44.37	348.4	2.86	G
1582	44.32	76.8	11.72	G
1606	44.30	350.6	1.33	G
1608	44.30	223.5	10.84	G
1619	44.27	286.8	7.95	G
1622	44.33	259.2	11.38	G
1627	44.32	197.5	20.32	G
1633	44.36	245.8	8.97	G
1634	44.35	149.6	4.83	G
1639	44.35	291.0	0.90	G
1647	44.29 44.32	209.9 208.9	1.03 1.33	G G
1653	44.36	341.5	7.74	G
1657	44.35	271.1	20.36	G
1661	44.32	228.4	2.09	G
1685	44.32	201.9	16.22	G
1687 AB	44.31	38.6	1.10	G
AC	44.31	123.6	28.16	G
1690	44.35	147.2	5.74	G
Σ 1727	1844.32	336°.8	7″.13	G
1742	44.35	350.5	1.22	G
1751	44.40	60.2	6.14	G
1757	44.33 44.40	39.3 35.2	1.43 1.66	G G
1760	44.32	64.6	8.73	G
1772	44.40	143.9	4.68	G
1777	44.40	233.4	3.90	G
1790	44.40	241.6	5.79	G
1942	42.65	95.3	9.22	G
2264	44.74	260.5	5.96	G
2276	44.74	257.4	6.44	G
2296	44.74*	15.9	2.00	G
2316	44.74	314.6	4.28	G
2402	44.74	209.6	0.5*	G
2461	45.69	331.9	3.65	C
2523	44.60	150.3	6.21	G
2525	44.60	248.1	0.92	G
2576	44.66	314.6	3.20	G
2600	41.70 44.66	60.5 57.9	3.14 2.72	G G
2606	44.66	132.8	0.94	G
2609	44.66	27.0	1.72	G
2631	44.61	337.0	4.55	G
2635	44.62	76.9	6.81	G
2651	41.76	279.5	1.63	G
2681 CD	43.87	103.3	22.30	G
2690A $\frac{BC}{2}$	44.66 44.66	255.8 255.8	14.79 14.79	G G
BC	41.80 41.80 41.81	213.1 214.2 204.3	< 0.5 — > 0.5	C G C

Σ2702	1843.87	204°.9	3″.11	G
2708	43.80	344.5	14.06	G
2757	44.89	270.9	1.60	G
2776 AB	39.89	51.1	—	C
	44.89	50.6	85.34	G
2777	39.89	35.4	28.49	C
	43.93	33.9	29.36	G
	44.77	35.0	31.50*	G
2789	43.93	117.2	5.94	G
2813	43.80	273.0	9.86	G
2815	41.79	83.0	7.85	G
	43.80	83.0	7.81	G
2816 AC	43.80	121.5	11.87	G
AD	43.80	340.4	19.67	G
2819	43.80	59.0	12.87	G
2822	43.93	114.8	4.74	G
Σ2878 AB	1841.90	124°.8	1″.35	G
AD	43.71	126.3	62.64	G
2882	43.89	326.0	3.28	G
2889	43.80	199.2	2.45	G
2900 AB	40.67	175.3	—	C
AC	40.67	340.1	—	C
2902	43.89	89.5	6.24	G
2909	39.79	353.4	3.92	C
	39.87	351.4	3.87	C
	44.73	347.7	3.36	G
2944 AB	44.74	247.5	4.05	G
AC	44.74	153.5	53.30	G
3024	40.67	308.1	5.02	C
	44.89	310.9	4.88	G
3062	42.96	204.1	0.75	G
	44.89	212.6	0.86	G

APPENDIX II.

MEASURES OF ADDITIONAL STRUVE STARS

Σ	R.A. 1900.0	N.P.D. 1900.0	Magnitudes	Colours	Date 1800.0 +	Position angle	Distance	Observer
8	0h 6m	93° 38′	7.5 9.0	B B	44.75	292°.0	7″.65	G
1324	9 8	63 25	8.5 12.0	B B	44.31	348.2	11.83	G
1332	9 12	65 56	7.5 7.5	B B	44.31	19.1	5.81	G
1397	9 51	64 28	8.5 11.0	B B	44.26	112.0	0.78	G
1404	9 59	91 12	8.5 9.0	B B	44.26	292.0	5.88	G
1445	10 28	90 21	8.5 12.0	B B	44.26	160.8	3.72	G
1465	10 37	44 51	8.5 9.0	W W	44.26	11.3	2.25	G
1470	10 41	95 14	9.0 9.0	B B	44.27	5.8	1.62	G
1482	10 47	82 0	8.0 9.0	W B	44.29	304.9	11.63	G
1496	10 53	76 11	8.0 10.0	B B	44.29	350.9	19.18	G
1500	10 55	92 56	8.0 8.5	B B	44.27	319.6	1.17	G
1501	10 57	58 38	9.0 9.5	B B	44.36	187.6	1.65	G
1506	11 0	93 41	8.0 11.0	W B	44.29	213.4	10.78	G
1534	11 17	71 16	8.5 13.5	B B	44.29	333.1	5.99	G
1535	11 18	88 31	8.5 12.0	B B	44.29	66.9	9.60	G
1549	11 27	65 7	9.0 10.0	B B	44.29	115.1	13.63	G
1558 AB	11 31	67 59	9.0 9.5	B B	44.36	158.5	1.13	G
$\frac{AB}{2}$ C			9.0 9.5	B B	44.36	276.6	43.30	G
1576	11 48	58 37	8.5 9.0	B B	44.33	239.7	5.05	G
1604 AB	12 4	101 18	7.5 9.5	W B	44.27	93.4	11.72	G
AC			7.5 8.5	W B	44.27	95.9	53.82	G
1658	12 30	82 0	8.5 9.5	B B	44.31	347.4	1.95	G
1659 AB	12 31	101 28	8.0 8.0	B B	44.27	351.6	27.31	G
AC			8.0 12.0	B B	44.27	71.2	33.23	G
BC			8.0 12.0	B B	44.27	114.0	37.22	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
1678	$12^{h}\ 40^{m}$	75° 5′	7.0 7.5	B B	44.31	209°.9	32″.88	G
1699	12 54	61 59	7.5 7.5	B B	44.31	1.6	1.25	G
1704	12 55	93 16	7.0 11.5	Y B	44.33	55.8	21.19	G
1728	13 5	71 57	— —	— —	42.34	Single	—	G
1737	13 17	71 43	8.0 11.0	B B	44.33	219.8	14.64	G
1781	13 41	84 23	8.0 8.5	B B	44.33	241.9	1.10	G
1805	14 5	85 31	8.0 8.5	B B	44.33	34.7	4.68	G
2110	16 51	64 6	5.5 10.0	Y B	41.69	95.4	18.58	G
2577	19 41	69 20	9.0 10.0	W B	44.78	261.1	5.58	G
2582	19 45	94 10	8.0 9.0	B B	44.63	260.5	2.16	G
2590	19 47	79 54	7.5 10.5 8.0 12.0	W B B B	44.63 44.78	308.7 309.1	14.00 13.35	G G
2596	19 49	74 58	8.0 8.5 8.0 9.5	B B B B	44.63 44.75	353.4 347.1	1.32* 1.75	G G
2620	19 59	78 29	8.0 9.0	B B	44.67	289.6	1.20*	G
2621	20 0	81 3	7.5 8.0	B B	44.67	222.9	5.43	G
2622	20 0	73 17	9.0 9.5 8.5 9.0	B B W B	44.67 45.69	194.6 193.6	5.85 5.89	G C
2637 AB	20 6	69 23	7.0 8.5 6.0 8.5	B B W B	44.64 44.74	325.5 325.4	11.62 11.58	G G
AC			7.0 7.5 6.0 7.0	B B W Y	44.64 44.74	226.4 226.3	72.18 71.94	G G
2655	20 10	68 5	7.5 7.5	B B	44.66	4.0	5.86	G
2662	20 14	79 20	8.5 12.0	B B	44.66	41.1	1.26	G
2676	20 19	63 11	8.0 10.5	W B	44.66	168.9	1.96	G
2698	20 30	62 13	8.0 9.0	B B	44.66	302.8	4.11	G
2701	20 32	78 18	7.5 8.0	B B	44.66	219.0	1.63	G
2742	20 57	83 13	7.5 7.5	B B	44.75	225.5	2.27	G
2749	21 0	86 52	8.5 9.5	W B	44.77	149.0	3.14	G
2767	21 6	70 27	8.0 8.5	B B	44.73	32.8	2.28	G

Σ	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
2786	21h 15m	80° 54′	8.0 9.0	B B	44.77	184°.1	2″.34	G
2847	21 53	93 58	8.0 8.5	B B	44.73	303.2	0.95	G
			8.0 8.5	BW BW	45.70	299.4	1.03	C
2849	21 53	70 14	8.5 11.0	B B	44.73	267.0	1.06	G
2868	22 5	67 57	8.0 8.5	B B	44.73	1.8	1.09	G
2869	22 6	75 52	7.5 12.5	Y B	44.73	250.6	21.68	G
2904	22 22	92 17	9.0 9.5	B B	44.74	312.0	7.68	G
2905	22 22	75 21	8.0 8.0	B B	41.90	284.9	3.84*	G
			8.5 8.5	BW BW	42.81	281.4	3.42	G
			8.5 8.5	B B	43.93	282.2	3.60	G
2936	22 38	89 18	7.5 10.5	W B	44.73	48.8	4.31	G
			7.5 10.0	W W	45.73	52.2	4.46	C
2943	22 42	104 35	6.5* 9.0	W B	42.64	113.4	29.45	G
3008	23 19	99 1	7.5 8.5	Y B	44.74	268.0	6.87	G
3078	12 4	78 9	8.5 11.5	B B	44.29	303.2	10.02	G
3120	8 49	45 56	8.0 9.0	B B	42.26	346.4	1.28	G
			8.0 9.0	B B	42.27	347.3	1.26	G
			8.0 9.0	W B	44.14	348.3	1.23	G
3121	9 12	61 0	7.0 8.0	— —	44.31	191.2*	—	G

APPENDIX III.

STARS NOT FOUND IN STRUVE

Name	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
OΣ 106	$5^{h}\,17^{m}$	84° 42′	7.0 10.5	W B	44.07	42°.0	9″.25	G
β Aurigae	5 52	45 4	2.0 10.5	Y B	41.96	37.9	183.45	G
OΣ 137 AB	6 15	68 49	8.0 9.5	B B	42.12	258.1	60.01	C
			7.5 9.0	W B	43.18	258.0	59.92	G
AC			7.5 13.0	W B	43.18	*	44.76	G
14 Can. Min. AB	7 53	87 30	6.0 9.0	Y B	41.22	68.6	79.01	G
			6.0 9.5	O B	43.18	68.6	79.43	G
AC			6.0 10.5	Y B	41.22	153.9	106.76	G
			6.0 10.5	O B	43.18	153.3	106.82	G
A.S.C. 985	7 57	87 23	5.5 10.0	Y B	41.22	316.4	240.85	G
			5.5 10.5	Y B	43.18	316.5	241.93	G
OΣ 196 (ι Urs. Maj.)	8 52	41 34	— 12.0	Y R	41.19	349.6	10.49	C
			— 12.0	Y B	41.19	350.1	10.95	G
OΣ 201 AB	9 18	61 40	8.0 9.5	B B	44.31	225.3	1.15	G
AC			8.0 13.0	B B	44.31	304.9	27.23	G
α Hydrae	9 23	98 13	— —	OR B	41.19	152.6	284.15	C
			— —	O G	41.19	152.8	—	G
			— —	— —	41.19	—	282.66	C
			— —	— —	41.19	153.3	282.36	G
OΣ 213	10 7	62 5	7.5 9.5	B B	44.26	117.9	1.04	G
OΣ 217	10 21	72 16	7.5 8.0	B B	44.26	144.9	0.44	G
OΣ 218	10 22	85 56	8.0 9.5	W B	44.26	61.2	1.01	G
OΣ 231	11 6	59 1	7.5 9.0	Y B	44.33	265.0	36.42	G
OΣ 232	11 10	51 53	8.0 8.5	B B	44.36	240.0	0.49	G
φ Leonis	11 12	93 6	6.0 8.5	O B	41.22	287.3	106.45	G
			6.0 8.5	Y B	43.30	287.4	106.75	G
OΣ 234	11 25	48 9	— —	— —	44.36	185.0	wedge shaped	G
OΣ 260	13 3	62 31	8.5 8.5	B B	44.31	114.2	0.76	G
OΣ 266	13 24	73 47	8.0 8.5	B B	44.33	329.0	0.98	G

Name	R.A. 1900·0	N.P.D. 1900·0	Magnitudes	Colours	Date 1800·0 +	Position angle	Distance	Observer
β 114	13^h 29^m	98° 6′	8.0 8.5	LB DB	41·33	125°.8	1″.54	G
			8.0 8.5	W B	43·35	127·9	1.22	G
Anon	13 37	61 7	— —	— —	42.47	1·9	*	G
			— —	— —	42.47	13	≯ 0.6	C
OΣ 273	13 51	84 13	8.0 8.5	B B	44·33	101.0	0.68	G
Ho 543	14 23	68 10	8.0 8.5	B B	42.65	237·1	5·50	G
Anon	15 51	86 16	11.0 11.0	B B	42.68	248.3	9.10	G
Anon	15 52	86 14	12.0 14.0	B B	42·47	194·8	13·36	G
			12.0 13.0	W B	43·41	195·1	10.34	G
β 44	17 10	61 5	7·5 8.0	LB DB	41·54	19.1	5·21	G
Anon	18 59	66 48	7·5 10.5	W B	42.64	320.3	40.50	G
			7·5 11.0	W B	42.70	320.8	40.39	G
OΣ 380 (χ Aquilae) AB	19 38	78 25	7.0 7·5	B B	44·78	77·9	0.56	G
$\frac{AB}{2}$ C			6.5 11.0	B B	44·78	31.0	1.14	G
OΣ 395	19 58	65 21	6.5 7.0	B B	44·78	77·4	0.56	G
OΣ 430	21 7	66 15	8.0 10.0	B B	44·77	209·4	0.58*	G
Anon	21 46	71 13	9·5 9·5	B B	41.85	25·1	15·59	G
			10.5 10.5	B B	42.90	27·4	15·05	G
			10.0 10.5	B B	43·67	25·7	14.01	G
OΣ 496 CD	23 25	32 1	6.5 8.5	Y B	41.86	227·1	1·55	G
			6.7 9.0	Y B	41.90	226.6	1·47	G
CH			6.5 14.0	Y Ash	41.86	340.6	23·45	G

NOTES

Page 4.	Σ 380	This should be OΣ 380: see Appendix III.
" 5.	757 758	The stars measured are those lettered AD in Burnham's General Catalogue, but the distances were wrongly reduced: see Errata and Appendix III.
" 6.	1009	The first observation is by Mr Snow.
" 9.	1426 AB	Distance estimated rather less than that of ε Arietis (Σ 333) measured immediately before.
" 10.	1507	7″.79 is amended distance: the original gives 9″.18 and is obviously wrong. Conjectural interchange of whole revolutions of micrometer heads.
	1527	The recorded position angle is 27°.3 which is obviously wrong and has been rejected.
	1530	The original gives 8″.88: interchanging the whole revolutions of micrometer heads gives 8″.09 which was adopted. It should be noted however that the eyepiece was changed for this observation, those to which the following two notes refer and one of Σ 1657: all four distances indicate unusual readings for coincidence of the wires and are unreliable.
" 11.	1619	Interchange of whole revolutions of micrometer heads: the original gives 8″.84. See note to Σ 1530.
" 12.	1719	(First observation) "Unsteady": the measure of distance is unsatisfactory. See note to Σ 1530.
" 19.	2402	(Third observation) "Observation very difficult."
" 23.	2729	These position angles are evidently wrong, but no explanation can be found of the discordance. On all three nights the star was marked as excessively difficult. The distance 0″.5 is an estimate.
	2747	"Much clouded in distances," which probably accounts for the discordance.
	2750	Distance unreliable. Clock running badly.
	2776 BC	Distance evidently wrong. Examined without result.
" 24.	2882	The measured distance is 4″.04, certainly erroneous, but no explanation can be found.
" 25.	2916 BC	Measure of distance examined without result. "Night very bad: stars blurred."
	3012	"Badly defined and unsatisfactory."
	3013	"Badly defined and unsatisfactory."
" 27.	5	"Very difficult: small star so faint."
	19	"Clouds passing: often faint."

Page 27.	Σ 113	(First observation) "Exceedingly unsteady and sometimes cloudy: power (715) too high." (Second observation) Magnification 275. "Night would not stand higher power."
	186	0.″75 is an estimate.
	694	"Bad night: clouds passing."
	734	"Unsatisfactory: stars faint, unsteady blurs."
	748CD	"Very hazy."
,, 28.	757 758	The stars measured are those lettered AC in Burnham's General Catalogue.
	$1196\frac{AB}{2}C$	Described as ξ Cancri without letters, but measured with power 280: probably $\frac{AB}{2}C$.
,, 29.	2296	"Small star very badly defined and difficult to see."
	2402	0.′5 is an estimate.
,, 30.	2777	"Images blurred."
,, 32.	2596	"Unsteady and ill-defined."
	2620	"Very badly defined."
	2662	"Very faint and difficult: small star barely seen."
,, 33.	2905	"Clock running badly."
	2943	"Suspect the larger star is double."
	3121	"Not separated with power 715: they cannot be more than $\frac{1}{2}$ second apart."
,, 34.	OΣ137AC	"In line with AB."
,, 35.	Anon ($13^h 37^m$)	Distance estimated about $\frac{1}{3}$ of a second.
	OΣ430	"Frosty night: very bad definition."

In cases where the components are of nearly the same magnitude, the convention as to position angle generally adopted has been followed and the recorded angles altered by 180° where necessary.

ERRATA

Page	2.	Σ	5		*for*	7″.10	*read*	8″.07
			40	1st obs.	,,	41.96	,,	41.89
			46	3rd obs. reject				
			115		*for*	0″.75	,,	<0″.75
,,	3.		205AB	1st obs.	,,	10″.45	,,	10″.61
,,	4.		333	1st obs.	,,	39″.95	,,	39″.79
			380	reject: the star observed was OΣ380—see Appendix III.				
,,	5.		757	1st obs.	*for*	49″.70	*read*	41″.76
			758	2nd obs.	,,	50″.03	,,	41″.23
			840BC		,,	6.5 9.0	,,	9.5 9.5
					,,	42.16	,,	43.16
,,	7.		1196AB	2nd obs.	,,	40.12	,,	40.17
					,,	6°.6	,,	7°.6
				6th obs.	,,	C	,,	G
			1196CB	1st obs.	,,	40.12	,,	40.17
				3rd obs. reject				
			1224	2nd obs.	*for*	39°.7	*read*	37°.5
				,,	,,	C	,,	G
			1245	4th obs.	,,	10″.23	,,	10″.40
			1273	1st obs.	,,	198°.5	,,	197°.3
				2nd obs.	,,	197°.5	,,	198°.4
,,	9.		1487	interchange the first two position angles				
,,	11.		1555	2nd obs.	*for*	42.32	*read*	42.44
,,	12.		1687AC	2nd obs.	,,	28″.86	,,	28″.58
			1719	1st obs.	,,	7″.43	,,	—*
			1724	2nd obs.	,,	43.39	,,	43.29
,,	14.		1823	1st obs.	,,	3″.20	,,	3′.70
			1866	2nd obs.	,,	201°.6	,,	202°.6
,,	19.		2402	3rd obs.	,,	213°.5	,,	193°.3*
,,	24.		2777	1st obs.	,,	28″.57	,,	28″.71
			2878AC		,,	14″.92	,,	124″.03

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